(Loamy Bottomland)

Description: Deep, well drained or moderately well drained soils with

loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the

subsoil.)

Limitations: Soils in this subgroup can have slight wetness and slight

salinity or alkalinity.

Soils: Alluvial land

Angelus silt loam

Bridgeport loam, clay loam, fine sandy loam, silt loam

silty clay loam Caruso loam, silt loam

Goshen silt loam Grigston silt loam Hord silt loam Humbarger loam

Las loam, clay loam, sandy loam, complex

Las Animas clay loam Roxbury silt loam, soils Ryus silty clay loam Volin silt loam, soils

LRA: 72 SUITABILITY GROUP: A-1

SPECIES	ADAPTAB	CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- NENT 4_/		TILIZ EDS 5		Ph RANGE 6_/	DROUGHT TOLERANCE
MARM SEASON GRASSES BIG BLUESTEM	4	8	5	7	e-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
KGN INDIANGRASS CHEYENNE	5 5 5	8 8	556534	7 7 7	2-3 1-3 1-3	0-	0	0	5. 5- 7.5	FAIR FAIR
Mebraska 54 Sideoats Grana El Reno	4N 6 6	7N B 8	6 3	7 5 5 5	1-3 1-3 1-3	0-1	0	0	6.0-7.5	FAIR 6000 6000
SWITCHERASS BLACKWELL	6	8	5	5 5	1-2	0–5	0	0	5.5-8 .0	600D 600D
COOL SEASON GRASSES CREEPING FOXTAIL	0	5N	6	7	1-2	1-2	1-2	0-5	5.5-7.0	POOR
GARRISON MEADOW BROMEGRASS	0	5N 7 7	6 7 6	7 6	1-2 1-2 1-2	1-2	1-2	0-5	5.5-7.0	POOR FAIR FAIR
REGAR Orchardgrass Latar	0	8 8	6 7 6 7	6 7 7	1-2 1-2	1-2	1-2	0-2	5.5-7.0	POOR POOR
REED CANARYGRASS IOREED	0	6 6	7	6 6 7	1-2	1-2	1-2	0-2	5.5-7.0	POOR POOR POOR
rise S≠Goth Brokegrass 9Chenbach	4	5 8 8	8 6 7 7	7	1-2 1 1	1-5	1-2	0-2	5.5-7.0	FAIR FAIR
lincoln Southland	3	7 8 7	7 7 6	7 7	1 1	1-2	1-2	۸2	6.2-7.0	FAIR FAIR POOR
TALL FESCUE KENTUCKY 31 WHEATGRASS	0	7	7		i.	1-6	1-6	V-c		PODR
INTERNEDIATE SLATE	4	7	5	4	1-5		1-2		****	FAIR FAIR
TALL JUSE Western	5 5 5	8 6 8	6 5 6 4	4 4 5	1-2 1-2 1-3	1-2 0-1	1-2 0-1	0-1 0-1	7.0-8.5 6.5-8.5	FAIR FAIR 6000
BARTON	5	å	5	5	1-3	• •	•	•	3.0 4.0	600D
LEGUMES ALFALFA (STANDARD) (RHIZOMATOUS)	5	9 8	10 7	8	1 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	6000 6000

- 1_/ ADAPTABILITY O=NOT ADAPTED, 1-3=POOR, 4-6=FRIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3 /GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4_/ STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5_/ FERTILIZER NEEDS 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6 / Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Loamy)

Description: Deep, well drained or moderately well drained soils with

loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on uplands and receive little or no extra moisture from adjoining areas. (Soils with a clayey subsoil

have at least 14 inches of loamy material above the

subsoil.)

Limitations: Few or no limitations. Soils in this subgroup can have

slight wetness and slight salinity or alkalinity.

Soils: Keith loam, silt loam

Kuma silt loam

Lubbock loam, silt loam, silty clay loam

Richfield loam, silt loam, silty clay loam, complex, fine

sandy loam

Satanta loam, fine sandy loam

Ulysses loam, silt loam, silty clay loam, complex

LRA: 72 SUITABILITY GROUP: A-2

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		TILIZ EDS 5 p		Ph Range 6_/	DROUGHT TOLERANCE
BIG RLUESTEM	4	8	5	7	2-3	0-1	Ō	0	6.0-7.5	FAIR-GOOD
INDIANGRASS	3	8	6 5	7	2-3 1-3	0-1	0	0	5.5-7.5	FAIR-600D FAIR
CHEYENNE Neb ras ka 54	3 3N	8 7N	5 6 6	7	1-3 1-3					FAIR FAIR
SIDEDATS GRAMA	6	7	3	5	1-3	0-1	0	0	6.0-7.5	6000
EL RENO SWITCHGRASS	6 5	7 8	4 5	5 5 5	1-3 1-2	0-2	0	0	5.5-8.0	6000 6000
BLACKWELL	5	8	6	5	1-2	_		-		6000
COOL SEASON GRASSES	_	_	_							
MEADON BROMEGRASS REGAR	3 3 0	6 6	6 7	6 6	1-2 1-2	1-2	1-2	0-5	5.5-7.0	FAIR FAIR
ORCHARDGRASS LATAR	Õ	ě	7 6	Ĭ	1-2	1-2	1-2	0-5	5.5-7.0	POOR
REED CANARYGRASS	ŏ	6665557	7	6 6	1-2 1-2	1-2	1-2	0-2	5.5-7.0	POOR POOR
IOREED RISE	0	5	8 8	6	1-2 1-2					POOR POOR
SMOOTH BRONEGRASS	0 2 0	ž	Ē	Ĭ	1	1-5	1-2	0-5	5.5-7.0	FAIR
ACHENBACH LINGOLN	0	7 6	7	,	1					FAIR FAIR
Southil and Tall Fesche	0	7 7	7 6	7	_	1-2	1-2	0-0	£ 2.7 A	FAIR POOR
KENTUCKY 31	ŏ	7	7	4		1-6	1-5	V-E	6.2-7.0	POOR
WHEATGRASS INTERMEDIATE	3	6	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	3	6 7		4	1-2					FAIR
TALL JOSE	4	7	6 5 6	4	1-2 1-2	1-2	1-2	0-1	7.0-8.5	FAIR FAIR
NESTERN Barton	5 5	8 A	4 5	5 5	1-3	0-1	0-1	0-i	6.5-8.5	6000
-	J	•	อ	อ	1-3					6000
LEGUMES (STANDARD)	0	8	10	8	1	0~1	1-3	1-3	6.5-8.0	6000
(RHIZDHATOUS)	ŏ	ž	7	8	1-2	0-1	1-3	1-2	6.5-8.0	600D

- 1 / ADAPTABILITY 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=600D; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3_/GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4_/ STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5_/ FERTILIZER NEEDS 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6 / Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Coarse Loamy Bottomlands)

Description: Deep, well drained or moderately well drained soils with

loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured surfaces, occur on lowlands, and

may receive extra moisture from adjoining areas.

Limitations: Lack of moisture and soil blowing may be hazards during

establishment of pasture.

Soils: Glenberg sandy loam

Las Animas sandy loam, loamy sand, soils, complex

Munjor complex

LRA: 72 SUITABILITY GROUP: A-3

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		TILII EDS 5		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SERSON ERROSES BIG BLUESTEM KAN	5 5	8	5 6	7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
INDIANGRASS CHEYENNE NEBRASKA 54	5 5 4N	8	5 6 6	7	1-3 1-3	0-1	0	0	5.5-7.5	FAIR-GOOD FAIR FAIR
SAND BLUESTEN GARDEN	5 5N	7N 8 8N	5 5 6	7 7 7	1-3 1-3 1-3	0-:	0-1	0- :	5.5-7.5	FAIR FAIR-GOOD FAIR-GOOD
MOEDWARD SIDEBATS GRAMA EL RENO	5 6 6	8 8 8	3	7 5 5 5	1-3 1-3 1-3	0-1	0	0	6.0-7.5	FAIR-600D 600D 600D
SWITCHGRASS BLACKWELL	6	8	5 6	5 5	1-2	0-5	0	0	5.5-8.0	600D 600D
COOL SEASON GRASSES CREEPING FOXTAIL GARRISON	0	5N 5N	6 7	7	1-2° 1-2	1-2	1-2	0-5	5.5-7.0	POOR POOR
MEADON BROMEGRASS REGAR	4	7 7	6 7	6	1-2 1-2	1-2	1-2	0-5	5.5-7.0	FAIR FAIR
orchardgrass Latar Reed Camarygrass	0 0 0	7 7 6	6 7 7	7 7 6	1-2 1-2 1-2	1-2	1-2	0-5 0-5	5.5-7.0 5.5-7.0	POER POOR POOR
IOREED RISE SMOOTH BROMEGRASS	0	6 5 8	8 8 6	6 6 7	1-2 1-2 1	1-2	1-2	0-2	5.5-7.0	POOR POOR FAIR
ACHENBACH LINCOLN SOUTHLAND	3	8 7 7	7 7 7	7 7	<u>i</u> 1	• •	• •	•		FAIR FAIR FAIR
TALL FESCUE KENTUCKY 31	0	å 8	5 7	4	i i	1-2	1-2	0-2	6.2-7.0	POOR POOR
WHEATGRASS INTERNEDIATE SLATE	4	7 7	5 6	4	1-2 1-2	1–2		0-1	6.0-7.5	FAIR FAIR
TALL JOSE WESTERN	5 5 5	8 8 8	5 6 4	4 4 5	1-2 1-2 1-3	1-2	1-2 0-1	0-1 0-1	7.0-8.5 6.5-8.5	FAIR FAIR GOOD
BARTON	5	8	5	5	1-3			•		600D
ALFALFA (STANDARD) (RHIZOMATOUS)	5 4	9. 8	10 7	8 8	1 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	600D 600D

- 1_/ ADAPTABILITY 0=NOT ADAPTED, 1-3=PODR, 4-6=FAIR, 7-9=SOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.
- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3 / GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4_/ STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5_/ FERTILIZER NEEDS 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6 / Ph RAMSE LOW AND HIGH Ph RECONMENDED FOR THE SPECIES.

(Sands)

Description: Deep, well drained to excessively drained soils with sandy

surfaces and subsoils. Available water holding capacity in

the 40-inch root zone is less than four inches.

Limitations: Choice of plants is limited by droughtiness and low

fertility. Lack of moisture and soil blowing may be a hazard during establishment of recommended species.

Soils: Dix soils

Dwyer loamy fine sand

Schamber gravelly sandy loam Tivoli loamy fine sand 1/Vona loamy fine sand

1/ Suitable only when irrigated.

LRA: 72 SUITABILITY SROUP: A-4

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		TILIZ EDS 5		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES BIG BLUESTEM KAN INDIANGRASS CHEYENNE NEBRASKA 54 PRAIRIE SANDREED GOSHEN SAND BLUESTEM BARDEN HOODMARD SIDEBATS GRAMA	4 4 4 4 3N 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 7 7 7 6N 8 8 8 8	56566565563456	7 7 7 7 7 3 3 7	2-3 2-3 1-3 1-3 1-3 2-3 2-3 1-3 1-3	0-1 0-1 0-1 0-1 0-1	0 0 0-1 0-1	0 0 0-1 0-1	6.0-7.5 5.5-7.5 5.5-7.0 5.5-7.5	FAIR-GOOD FAIR-GOOD FAIR FAIR FAIR GOOD FAIR-GOOD FAIR-GOOD FAIR-GOOD FAIR-GOOD
EL RENO SWITCHGRASS BLACKWELL	5 5 5	7 7 7	4 5 6	5 5 5 5	1-3 1-2 1-2	0-5	0	0	5.5-8.0	600D 600D
COOL SEASON GRASSES CREEPING FOXTAIL GARRISON MEADOW BROMEGRASS REGAR ORCHARDGRASS LATER	0 0 0 0	5 7 7 7 7	6 7 6 7 6	7 7 6 6 7	1-2 1-2 1-2 1-2 1-2 1-2	1-2 1-2 1-2	1-2	0-5	5.5-7.0 5.5-7.0 5.5-7.0	POOR POOR FAIR FAIR POOR POOR
SMOOTH BROMEGRASS ACHENBACH LINCOUN SOUTHLAND TALL FESCUE KENTUCKY 31 WHEATGRASS	0	7 7 6 7 7 7	6 7 7 7 6 7	7777	1 1 1 1 1			-	5.5-7.0 6.2-7.0	FAIR FAIR FAIR FAIR POOR POOR
INTERMEDIATE SLATE	0	7	5 6	4	1-2 1-2	1-2	1-2	0-1	6.0-7.5	FAIR FAIR
LEGUMES ALFALFA (STANDARD) (RHIZOMATOUS)	0	8 7	10 7	8 8	1 1-2	0-1 0-1	1-3 1-3	1-3	6.5-8.0 6.5-8.0	600D 600D

¹_/ ADAPTABILITY - O=NOT ADAPTED, 1-3=PODR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

^{3 /}GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

^{4 /} STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

^{5 /} FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FRVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

^{6 /} Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Coarse Loamy Upland)

Deep, well drained soils with loamy surfaces and subsoils. Description:

Soils in this subgroup have moderately coarse-textured

surfaces and occur on uplands.

Limitations: Lack of moisture and soil blowing may be hazards during

establishment of recommended species.

Soils: Bayard fine sandy loam

Dalhart fine sandy loam, loamy fine sand Manter fine sandy loam, complex Otero fine sandy loam, complex

LRA: 72 SUITABILITY GROUP: A-6

-2-

SPECIES		CIES DILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		RTILII EDS :		Ph RANGE 6_/	DROUGHT Tolerance
WARM SERSON GRASSES BIG BLUESTEM KAN	4	5 8	5 6	7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-6000 FAIR-600D
INDIANGRASS CHEVENNE	3 3	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
SAND BLUESTEM	4	8 8 8 7	5 6 5 6 3 4	7 7	1-3 1-3 1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
SIDEOATS GRANA EL RENO	6	7 7	3	5 5	1-3 1-3 1-3	0-1	0	0	6.0-7.5	FAIR-600D 600D
SWITCHGRASS BLACKWELL	5 5	8	5 6	5 5	1-5	0-2	0	0	5.5-8.0	600D 600D
COOL SEASON GRASSES MEADOW BROMEGRASS	3	7	6	6	1-2	1-2	1-2	0-2	5:5-7:0	FAIR
regar Orcharderass	3	7	7	6 7	1-2					FAIR
LATAR	Õ	7	6 7	7	1-2 1-2	1-2			5.5-7.0	POOR POOR
REED CAMARYGRASS IOREED	0	5 5 5	7	6 6	1-2 1-2	1-2	1-2	0-5	5.5-7.0	POOR POOR
RISE SMOOTH BROMEGRASS ACHENBACH	5 0	8	8 6 7 7 7	6 6 7	1-2	1-2	1-2	0-5	5.5-7.0	POOR FAIR
LINCOLN SOUTHLAND	0	8 6 8	7	7777	1					FAIR FAIR
TALL FESCUE KENTUCKY 31 WEATGRASS	0	8	6 7	4	i i	1-5	1-2	0-5	6.2-7.0	FAIR POOR POOR
INTERNEDIATE SLATE	3 3	6 6	5 6 5	4	1-2 1-2	1-2	1-2	0-1	6.0-7.5	FAIR FAIR
TALL JDSE	4	7 7	5 6	į	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
WESTERN BARTON	5 5	8	4 5	5 5	1-2 1-3 1-3	0-1	0-1	0-1	6,5-8,5	FAIR 600D 600D
LEGUMES	_	_		_						
ALFALFA (STANDARD) (RHIZOMATOUS)	0	8 7	10 7	8 8	1 1-2	0-1 0-1	1-3 1-3	1-3	6.5-8.0 6.5-8.0	600D

i_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS-RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

³_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

^{4 /} STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

^{5./} FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

^{5 / 9}h RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Deep Limy)

Description: Deep, well drained or somewhat excessively drained soils

with loamy surfaces and subsoils that contain lime throughout the profile.

Limitations: Soils in this subgroup are slightly affected by limy

surfaces and subsoils.

Soils: Campus loam, complex

Colby loam, silt loam - 15 percent slopes Elkader silt loam

Kim clay loam, complex Mansic clay loam, complex

Mansker loam, clay loam, complex

Minnequa silt loam, complex

Penden clay loam

LRA: 72 SUITABILITY GROUP: A-7

SPECIES		CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- HENT 4_/		TILIZ EDS S		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES BIG BLUESTEN KAW	4	8	5 6	7	2-3 2-3	0-1	0	0	6.0-7.5	FAIR-GOOD FAIR-GOOD
INDIANGRASS CHEYENNE NEBRASKA 54	3 3 3N	8 8 7N	5 6 6	7 7 7	1-3 1-3 1-3	0-1	0	0	5. 5-7.5	FAIR FAIR FAIR
SIDEDATS GRAMA EL RENO	6 6	7 7	3	5 5	1-3 1-3	0-1	0	0	6.0-7.5	600D 600D
SWITCHGRASS BLACKWELL	4	7 7	5 6	5 5 5 5	1-2 1-2	0–5	0	0	5.5-8. 0	600 0 6000
COOL SEASON GRASSES MEADON BROMEGRASS REGAR	5	5	6 7	6 6	1-2	1-2	1-2	0-5	5.5-7.0	FAIR
ORCHARDGRASS LATAR	0	5 5	6 7	7 7	1-2 1-2 1-2	1-2	1-2	0-5	5.5-7.0	FAIR POOR POOR
SMOOTH BROMEGRASS ACHENBACH	0	6	6 7	7 7	1	1-2	1-2	0-2	5.5-7.0	FAIR FAIR
LINCOLN SOUTHLAND TALL FESCUE	0 0 0	5555665655	7 7 6	7	1 1	1-2	1-2	0-2	6.2-7.0	FAIR FAIR POOR
KENTUCKY 31 WHEATGRASS	Ō	_	7	4	i					POOR
INTERNEDIATE SLATE	2 2 4	5 5	5 6	4	1-2 1-2				6.0-7.5	FAIR FAIR
TALL JOSE	Ä	7	5	4	1-2 1-2				7.0-8.5	fair Fair
MESTERN Barton	5 5	8	4 5	5	1-3 1-3	0-1	0-1	0-1	6.5-8.5	600D 600D
LEGUMES ALFALFA (STANDARD) (RHIZOMATOUS)	0	7 6	10 7	8	i 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5-8.0 6.5-8.0	600D 600D

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²_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

³_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

⁴_/ STAND ESTABLISHMENT - MUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

⁵_/ FERTILIZER NEEDS - O=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

⁶_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Sandy Bottomland)

Deep, well drained or excessively drained soils with sandy Description:

surfaces and subsoils. Soils in this subgroup have sandy surfaces and occur on bottomlands and receive extra water

from upland drainage.

Limitations:

Choice of plants is limited by droughtiness and low fertility. Soil blowing may be extremely hazardous during

establishment and early growth.

Bankard loamy sand, sandy loam Soils:

Inavale soils

Lincoln sand, fine sandy loam, soils

LRA: 72 SUITABILITY SROUP: A-9

SPECIES	ADAPTAB	CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		EDS S		Ph RANGE 6_/	DROUGHT Tolerance
: 654 35666: 056666			•	-	•					
KARM SEASON GRASSES INDIANGRASS CHEYENNE	4	7	5	7	1-3 1-3	0-i	0	0	5.5-7.5	FAIR FAIR
PRAIRIE SANDREED SOSHEN	5 5	8	56565656	7 3 3 7 7	2-3 2-3	0-1	0-1	0-1	5.5-7.0	600D
SAND: BLUESTEN WOODWARD	5 5 5 5	8 8	5 6	7	1-3 1-3	0-1	0-1	0-1	5.5-7.5	FAIR-600D FAIR-600D
SWITCHGRASS BLACKWELL	5 5	7 7	5 6	5 5	1-2 1-2	0-2	0	0	5.5-8.0	600 D
COOL SEASON GRASSES										
CREEPING FOXTAIL	0	5 5 7	6 7	7	1-2 1-2	1-2	1-2	0-5	5.5-7.0	POOR POOR
MEADON BRONEGRASS REGAR	0	777	6 7	6	1-2 1-2	1-2	1-2	0-5	5.5-7.0	FAIR FAIR
DRCHARDGRASS	0	7	6	1	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR SMOOTH BROWEGRASS	Ö	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR FAIR
ACHENBACH	Ō	7	Ž	7	Ī		• =	-		FAIR
LINCOLN SOLITHLAND	0	6 7	7	7	1					FAIR FAIR
TA'L FESCUE	ŏ	Ź	6	4	i	1-2	1-2	0-2	6,2-7,0	POOR
KENTUCKY 31 WHERTERASS	0	7	7	4	1					POOR
INTERMEDIATE	0	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	0	7	6	4	1-2		•			FAIR
HESTERN	4	7	4	5 5	1-3	0-1	0-1	0-1	6.5-8.5	6000
Barton	4	7	5	5	1-3	_				GOOD
LEGUNES										
ALFALFA (STANDARD) (RHIZOMATOUS)	0	8 7	10 7	8 8	1 1-2	0-1 0-1	1-3 1-3	1-3 1-2	6.5 -8 .0 6.5 -8 .0	600D

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⁶_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Wet Loamy)

Description:

Deep, somewhat poorly or poorly drained soils with loamy surfaces and loamy to clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive

extra moisture from adjoining areas.

Limitations: Seasonal wetness during a portion of the growing season.

Soils: Sweetwater clay loam, soils

LRA: 72 SLITABILITY SROUP:

SPECIES	SPE ADAPTAB DRYLAND	CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2 /	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4 /		RTILI:		Ph RANGE 6_/	DROUGHT TOLERANCE
***				u_,	racer 4_r	14	•	n	0_/	IULEIOWALE
WORK SERSON BRASSES	_									
BIG BLUESTEM	•	•	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	•	· ,	5	7	2-3					FAIR-GOOD
INDIANGRASS	•	•	ភ្	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE SWITCHBRASS	*	-	6	7	1-3					FAIR
BLACKWELL	þ	•	5	5 5	1-5	0-2	0	0	5.5 -8 .0	6000
DUPORMELL	0	-	6	5	1-2					600D
COOL SEASON GRASSES										
EREEPING FOXTAIL	5		6	7	12	12	1-5	Λ-2	E E 7 A	2000
GARRISON	5 5	-	7	ź	1-2 1-2	-2	1_5	V~2	5.5-7.0	POOR
DRCHARDGRASS	ă.		Ŕ	,	1-2	1-9	1_2	^- 2	5.5-7.0	POOR
LATAR	4		ž	ż	1-2	1-5	1-5	V-E	3.3-7.0	POOR POOR
REED CAMARYGRASS	5	•	7	Ġ	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	5	-	Ä	ě	1-2			UL	5.5 7.0	POOR
RISE	5 5 3	-	8 8	Ğ	i-ē					PODR
TALL FESCUE	3	2	6 7	Ă.	٠.٠	-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	3	-	7	4				-		POOR
WHEATERASS	_									
INTERMEDIATE	5	*	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE TALL	Ş	- 5	6 5	•	1-2					FAIR
JOSE	4		Ď	4	1-5	1-2	1-2	0-1	7.0 -8 .5	FAIR
WESTERN	'		5	4 5	1-2					FAIR
BARTON	ź	_	5	5 5	1-3	0-1	0-1	0-1	6.5 -8 .5	6000
WINT WIT	•		J	J	1-3					600D

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³_/SRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

^{4 /} STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

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⁶_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Wet Sodic)

Description: Deep, somewhat poorly or poorly drained loamy soils with a

high sodium absorption ratio. The subsoils range from sandy to clayey and contain a high water table during the winter

and/or spring months.

Limitations: Choice of plants is limited by high sodium content and

moderate salinity. Wetness during a portion of the growing

season is common.

Soils: Arvada silty clay loam

Bowdoin clay, clay loam, loamy fine sand

Church clay, silty clay loam Drummond silt loam, complex

Las Animas - Lesho complex, alkali

Richfield silt loam, saline Ulysses silt loam, saline

LRG: 72 SUITABILITY GROUP: 6-3 -5-

SPECIES	SPE ADAPTAB DRYLAND	CIES ILITY 1 / IRRIGATED	SPECIES PRODUC- TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH- MENT 4_/		TILIZ EDS 5		Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
ALKALI SACATON	5	0	4	2	2-3	0-1	0	0	6.5 -8 .0	600D
SALTALK	5	0	5	5	2-3					600D
SWITCHGRASS	5 5 5	.0	5	5	1-2	0-5	0	0	5.5-8.0	6000
BLACKWELL	5	Ó	6	5	1-2					600D
COOL SEASON GRASSES WHEATGRASS										
TALL	5 5	0	5	4	1-2	1-5	1-2	0-1	7.0-8.5	FAIR
JOSE	5	0	6	4	1-2					FAIR
WESTERN	4	0	4	5	1-3	0-1	0-1	0-1	6.5-8.5	600D
BARTON	4	0	5	5	1-3					600D

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- 2_/ SPECIES PRODUCTIVITY A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.
- 3 / GRAZING PREFERENCE SCALE 1 8, (1=POOR, 8=EXCELLENT).
- 4 / STAND ESTABLISHMENT NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.
- 5 / FERTILIZER NEEDS 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALMAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.
- 6 / Ph RANGE LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

(Not Suitable)

Description: This group includes various textures and phases of soils and

land types which occur on a wide range of slopes and

topography.

Limitations: Soils in this group are generally too shallow, erosive,

gravelly, stony, or rocky; too steep, droughty, wet, clayey,

or saline and alkaline for good survival or growth of

pasture species.

Soils: Active dunes

Arkansas River

Badlands Blowout land Broken land

Canlon loam, complex

Canyon loam

Colby loam, silt loam - 15 percent slopes

i

Gravelly broken land Limon silty clay

Lismas clay

Lofton clay loam, silty clay loam

Midway clay Ness clay

Pleasant silty clay loam

Potter soils Promise clay Randall clay Razor clay

Travessilla soils